



<b>FORM PTO -1449</b>  <b>INFORMATION DISCLOSURE IN AN APPLICATION BY APPLICANT</b> <i>(Use several sheets if necessary)</i>				<b>Docket Number</b>		<b>Application Number</b>	
				DIV-1220-2		09/214,645	
				<b>Applicant</b>		<b>Examiner</b>	
				Jay M. Short		B.L. Sisson	
<b>Filing Date</b>				<b>Group Art Unit</b>			
September 27, 1999				1634			
Sheet <u>1</u>		of <u>1</u>					
<b>U.S. Patent Documents</b>							
<b>EXAMINER INITIAL</b>	<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE IF APPROPRIATE</b>	
	4,683,202	July 28, 1987	Kary B. Mullis	435	91		

<b>Foreign Patent Documents</b>							
<b>EXAMINER INITIAL</b>	<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>	
						<b>YES</b>	<b>NO</b>
	2 641 793	July 20, 1990	FRANCE				
	WO 90/07575	July 12, 1990	WIPO			Abstract	
	WO 97/07205	Feb. 27, 1997	WIPO				
	WO 97/20078	June 5, 1997	WIPO				
	WO 95/22625	Aug. 24, 1995	WIPO				
	EP 0 876 509	Sept. 19, 2001	EUROPE				

<b>Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)</b>
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A	Jirholt P. et al., "Exploiting sequence space: shuffling in vivo formed complementarity determining regions into a master framework", GENE, 215:471-476, (1998).
B	Pompon D. and Nicolas A., "Protein engineering by cDNA recombination in yeasts: shuffling of mammalian cytochrome P-450 functions", GENE, 83:15-24, (1989).
C	Lewin, Benjamin, "DNA is the Genetic Material", GENES IV, 4:69-72 (Chapter 4); 458-460 (Chapter 23), (1990).
D	Marton, Attila et al., "DNA Nicking Favors PCR Recombination", Nucleic Acids Research, 19(9):2423-2426, (1991).
E	Paabo, Svante et al., "DNA Damage Promotes Jumping between Templates during Enzymatic Amplification", The Journal of Biological Chemistry, 265(8):4718:4721, (1990).
F	Saiki, Randall K. et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase", Science, 239:487-490, (1988).
G	Stemmer, Willem P.C., "Searching Sequence Space (Using Recombination to Search More Efficiently and Thoroughly Instead of Making Bigger Combinatorial Libraries)", Biotechnology, 13:549-553, (1995).
H	Suzuki, David T. et al., "An Introduction to Genetic Analysis", 4:416-419 (Chapter 15); 482-490 (Chapter 17); and 511-512 (Chapter 18), W.H. Freeman and Co., Fourth Ed., (1989).
I	Sambrook et al., "In Vitro Amplification of DNA by the Polymerase Chain Reaction", (Section 14), In: Molecular Cloning Handbook, pp. 14.2-14.19, (1989).

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
<b>EXAMINER:</b> Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.	



PATENT  
Docket No. DIV-1220-2

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Jay M. Short

U.S. Serial No.: 09/214,645

Examiner: Bradley L. Sisson

Filing Date: September 27, 1999

Art Unit: 1634

For: **METHOD OF DNA SHUFFLING WITH POLYNUCLEOTIDES  
PRODUCED BY BLOCKING OR INTERRUPTING A SYNTHESIS  
OR AMPLIFICATION PROCESS**

Box: RCE  
Commissioner for Patents  
Washington D.C. 20231

I hereby certify that this correspondence is being transmitted by Express Mail bearing Express Mail Label No. EL727328638US to the Commissioner for Patents, BOX: RCE, Washington, D.C. 20231 on Date: March 6, 2003  
Signature: *Susan A. D'Alessandro*  
Susan A. D'Alessandro

Dear Sir:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

This Supplemental Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98 and accompanies the filing of a Request for Continued Examination in the above-identified patent application. The items listed on Form PTO-1449, a copy of which is enclosed, are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the listed, enclosed items and to independently ascertain their teaching.

The applicant brings to the attention of the Patent Office that observations by a third party were submitted in related European Patent Application No. 9793348.0, currently pending in the European Patent Office. The Examiner is requested to inform the applicant if further information pertaining to the third party observations is desired. It is respectfully requested that

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U.S. Serial No.: 09/214,645  
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the Examiner initial and return a copy of the enclosed PTO Form 1449 with the next Patent Office communication.

No fees other than those paid herewith are believed to be due in connection with the filing of this Supplemental Information Disclosure Statement. However, the Commissioner is authorized to debit any necessary fee, or to credit any overpayment relating to the above-identified application, to Deposit Account No. 08-0219.

Respectfully submitted,

HALE AND DORR, L.L.P.

Date: March 6, 2003

By: \_\_\_\_\_



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